



Report No.: SEWA2212000088RG01

Rev.: 01

Page: 1 of 55

Appendix B.13

LTE Band 41



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	23.4	24.98	33	PASS
Band41	5MHz	QPSK	39675	1RB#12	23.38	24.96	33	PASS
Band41	5MHz	QPSK	39675	1RB#24	23.4	24.98	33	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.51	24.09	33	PASS
Band41	5MHz	QPSK	40620	1RB#0	23.51	25.09	33	PASS
Band41	5MHz	QPSK	40620	1RB#12	23.45	25.03	33	PASS
Band41	5MHz	QPSK	40620	1RB#24	23.4	24.98	33	PASS
Band41	5MHz	QPSK	40620	25RB#0	22.61	24.19	33	PASS
Band41	5MHz	QPSK	41565	1RB#0	23.21	24.79	33	PASS
Band41	5MHz	QPSK	41565	1RB#12	23.19	24.77	33	PASS
Band41	5MHz	QPSK	41565	1RB#24	23.17	24.75	33	PASS
Band41	5MHz	QPSK	41565	25RB#0	22.35	23.93	33	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.78	24.36	33	PASS
Band41	5MHz	16QAM	39675	1RB#12	22.71	24.29	33	PASS
Band41	5MHz	16QAM	39675	1RB#24	22.75	24.33	33	PASS
Band41	5MHz	16QAM	39675	25RB#0	20.62	22.2	33	PASS
Band41	5MHz	16QAM	40620	1RB#0	22.86	24.44	33	PASS
Band41	5MHz	16QAM	40620	1RB#12	22.8	24.38	33	PASS
Band41	5MHz	16QAM	40620	1RB#24	22.74	24.32	33	PASS
Band41	5MHz	16QAM	40620	25RB#0	21.64	23.22	33	PASS
Band41	5MHz	16QAM	41565	1RB#0	22.57	24.15	33	PASS
Band41	5MHz	16QAM	41565	1RB#12	22.55	24.13	33	PASS
Band41	5MHz	16QAM	41565	1RB#24	22.51	24.09	33	PASS
Band41	5MHz	16QAM	41565	25RB#0	21.38	22.96	33	PASS
Band41	5MHz	64QAM	39675	1RB#0	21.57	23.15	33	PASS
Band41	5MHz	64QAM	39675	1RB#12	21.48	23.06	33	PASS
Band41	5MHz	64QAM	39675	1RB#24	21.55	23.13	33	PASS
Band41	5MHz	64QAM	39675	25RB#0	20.65	22.23	33	PASS



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Report No.: SEWA2212000088RG01

Rev.: 01

Page: 3 of 55

Band41	5MHz	64QAM	40620	1RB#0	21.61	23.19	33	PASS
Band41	5MHz	64QAM	40620	1RB#12	21.61	23.19	33	PASS
Band41	5MHz	64QAM	40620	1RB#24	21.52	23.1	33	PASS
Band41	5MHz	64QAM	40620	25RB#0	20.69	22.27	33	PASS
Band41	5MHz	64QAM	41565	1RB#0	21.34	22.92	33	PASS
Band41	5MHz	64QAM	41565	1RB#12	21.31	22.89	33	PASS
Band41	5MHz	64QAM	41565	1RB#24	21.3	22.88	33	PASS
Band41	5MHz	64QAM	41565	25RB#0	20.43	22.01	33	PASS
Band41	10MHz	QPSK	39700	1RB#0	23.43	25.01	33	PASS
Band41	10MHz	QPSK	39700	1RB#24	23.38	24.96	33	PASS
Band41	10MHz	QPSK	39700	1RB#49	23.4	24.98	33	PASS
Band41	10MHz	QPSK	39700	50RB#0	22.58	24.16	33	PASS
Band41	10MHz	QPSK	40620	1RB#0	23.54	25.12	33	PASS
Band41	10MHz	QPSK	40620	1RB#24	23.48	25.06	33	PASS
Band41	10MHz	QPSK	40620	1RB#49	23.36	24.94	33	PASS
Band41	10MHz	QPSK	40620	50RB#0	22.62	24.2	33	PASS
Band41	10MHz	QPSK	41540	1RB#0	22.96	24.54	33	PASS
Band41	10MHz	QPSK	41540	1RB#24	23.21	24.79	33	PASS
Band41	10MHz	QPSK	41540	1RB#49	22.92	24.5	33	PASS
Band41	10MHz	QPSK	41540	50RB#0	22.21	23.79	33	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.77	24.35	33	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.74	24.32	33	PASS
Band41	10MHz	16QAM	39700	1RB#49	22.75	24.33	33	PASS
Band41	10MHz	16QAM	39700	50RB#0	20.65	22.23	33	PASS
Band41	10MHz	16QAM	40620	1RB#0	22.89	24.47	33	PASS
Band41	10MHz	16QAM	40620	1RB#24	22.84	24.42	33	PASS
Band41	10MHz	16QAM	40620	1RB#49	22.74	24.32	33	PASS
Band41	10MHz	16QAM	40620	50RB#0	21.67	23.25	33	PASS
Band41	10MHz	16QAM	41540	1RB#0	22.32	23.9	33	PASS
Band41	10MHz	16QAM	41540	1RB#24	22.57	24.15	33	PASS
Band41	10MHz	16QAM	41540	1RB#49	22.29	23.87	33	PASS
Band41	10MHz	16QAM	41540	50RB#0	21.26	22.84	33	PASS
Band41	10MHz	64QAM	39700	1RB#0	21.61	23.19	33	PASS



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Report No.: SEWA2212000088RG01

Rev.: 01

Page: 4 of 55

Band41	10MHz	64QAM	39700	1RB#24	21.47	23.05	33	PASS
Band41	10MHz	64QAM	39700	1RB#49	21.55	23.13	33	PASS
Band41	10MHz	64QAM	39700	50RB#0	20.63	22.21	33	PASS
Band41	10MHz	64QAM	40620	1RB#0	21.69	23.27	33	PASS
Band41	10MHz	64QAM	40620	1RB#24	21.55	23.13	33	PASS
Band41	10MHz	64QAM	40620	1RB#49	21.53	23.11	33	PASS
Band41	10MHz	64QAM	40620	50RB#0	20.68	22.26	33	PASS
Band41	10MHz	64QAM	41540	1RB#0	21.06	22.64	33	PASS
Band41	10MHz	64QAM	41540	1RB#24	21.34	22.92	33	PASS
Band41	10MHz	64QAM	41540	1RB#49	21.09	22.67	33	PASS
Band41	10MHz	64QAM	41540	50RB#0	20.26	21.84	33	PASS
Band41	15MHz	QPSK	39725	1RB#0	23.27	24.85	33	PASS
Band41	15MHz	QPSK	39725	1RB#38	23.29	24.87	33	PASS
Band41	15MHz	QPSK	39725	1RB#74	23.36	24.94	33	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.56	24.14	33	PASS
Band41	15MHz	QPSK	40620	1RB#0	23.4	24.98	33	PASS
Band41	15MHz	QPSK	40620	1RB#38	23.33	24.91	33	PASS
Band41	15MHz	QPSK	40620	1RB#74	23.35	24.93	33	PASS
Band41	15MHz	QPSK	40620	75RB#0	22.62	24.2	33	PASS
Band41	15MHz	QPSK	41515	1RB#0	22.9	24.48	33	PASS
Band41	15MHz	QPSK	41515	1RB#38	23.15	24.73	33	PASS
Band41	15MHz	QPSK	41515	1RB#74	23.1	24.68	33	PASS
Band41	15MHz	QPSK	41515	75RB#0	22.19	23.77	33	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.69	24.27	33	PASS
Band41	15MHz	16QAM	39725	1RB#38	22.72	24.3	33	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.72	24.3	33	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.63	23.21	33	PASS
Band41	15MHz	16QAM	40620	1RB#0	22.82	24.4	33	PASS
Band41	15MHz	16QAM	40620	1RB#38	22.69	24.27	33	PASS
Band41	15MHz	16QAM	40620	1RB#74	22.69	24.27	33	PASS
Band41	15MHz	16QAM	40620	75RB#0	21.61	23.19	33	PASS
Band41	15MHz	16QAM	41515	1RB#0	22.21	23.79	33	PASS
Band41	15MHz	16QAM	41515	1RB#38	22.52	24.1	33	PASS



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Report No.: SEWA2212000088RG01

Rev.: 01

Page: 5 of 55

Band41	15MHz	16QAM	41515	1RB#74	22.46	24.04	33	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.2	22.78	33	PASS
Band41	15MHz	64QAM	39725	1RB#0	21.31	22.89	33	PASS
Band41	15MHz	64QAM	39725	1RB#38	21.42	23	33	PASS
Band41	15MHz	64QAM	39725	1RB#74	21.44	23.02	33	PASS
Band41	15MHz	64QAM	39725	75RB#0	20.64	22.22	33	PASS
Band41	15MHz	64QAM	40620	1RB#0	21.53	23.11	33	PASS
Band41	15MHz	64QAM	40620	1RB#38	21.49	23.07	33	PASS
Band41	15MHz	64QAM	40620	1RB#74	21.42	23	33	PASS
Band41	15MHz	64QAM	40620	75RB#0	20.61	22.19	33	PASS
Band41	15MHz	64QAM	41515	1RB#0	20.91	22.49	33	PASS
Band41	15MHz	64QAM	41515	1RB#38	21.24	22.82	33	PASS
Band41	15MHz	64QAM	41515	1RB#74	21.22	22.8	33	PASS
Band41	15MHz	64QAM	41515	75RB#0	20.23	21.81	33	PASS
Band41	20MHz	QPSK	39750	1RB#0	23.31	24.89	33	PASS
Band41	20MHz	QPSK	39750	1RB#49	23.29	24.87	33	PASS
Band41	20MHz	QPSK	39750	1RB#99	23.35	24.93	33	PASS
Band41	20MHz	QPSK	39750	100RB#0	22.6	24.18	33	PASS
Band41	20MHz	QPSK	40620	1RB#0	23.5	25.08	33	PASS
Band41	20MHz	QPSK	40620	1RB#49	23.34	24.92	33	PASS
Band41	20MHz	QPSK	40620	1RB#99	23.34	24.92	33	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.61	24.19	33	PASS
Band41	20MHz	QPSK	41490	1RB#0	22.75	24.33	33	PASS
Band41	20MHz	QPSK	41490	1RB#49	23.13	24.71	33	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.03	24.61	33	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.16	23.74	33	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.61	24.19	33	PASS
Band41	20MHz	16QAM	39750	1RB#49	22.63	24.21	33	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.72	24.3	33	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.67	23.25	33	PASS
Band41	20MHz	16QAM	40620	1RB#0	22.86	24.44	33	PASS
Band41	20MHz	16QAM	40620	1RB#49	22.7	24.28	33	PASS
Band41	20MHz	16QAM	40620	1RB#99	22.6	24.18	33	PASS



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Report No.: SEWA2212000088RG01

Rev.: 01

Page: 6 of 55

Band41	20MHz	16QAM	40620	100RB#0	21.64	23.22	33	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.09	23.67	33	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.47	24.05	33	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.34	23.92	33	PASS
Band41	20MHz	16QAM	41490	100RB#0	21.2	22.78	33	PASS
Band41	20MHz	64QAM	39750	1RB#0	21.35	22.93	33	PASS
Band41	20MHz	64QAM	39750	1RB#49	21.42	23	33	PASS
Band41	20MHz	64QAM	39750	1RB#99	21.43	23.01	33	PASS
Band41	20MHz	64QAM	39750	100RB#0	20.65	22.23	33	PASS
Band41	20MHz	64QAM	40620	1RB#0	21.63	23.21	33	PASS
Band41	20MHz	64QAM	40620	1RB#49	21.49	23.07	33	PASS
Band41	20MHz	64QAM	40620	1RB#99	21.39	22.97	33	PASS
Band41	20MHz	64QAM	40620	100RB#0	20.64	22.22	33	PASS
Band41	20MHz	64QAM	41490	1RB#0	20.79	22.37	33	PASS
Band41	20MHz	64QAM	41490	1RB#49	21.28	22.86	33	PASS
Band41	20MHz	64QAM	41490	1RB#99	21.13	22.71	33	PASS
Band41	20MHz	64QAM	41490	100RB#0	20.2	21.78	33	PASS



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Report No.: SEWA2212000088RG01

Rev.: 01

Page: 7 of 55

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	100RB#0	9.00	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	8.96	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	9.04	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	9.66	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	9.52	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	9.62	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	10.04	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	9.94	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	10.18	13	PASS



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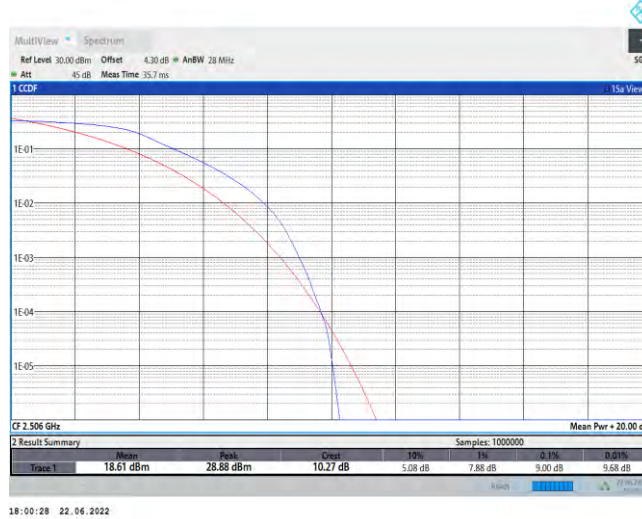
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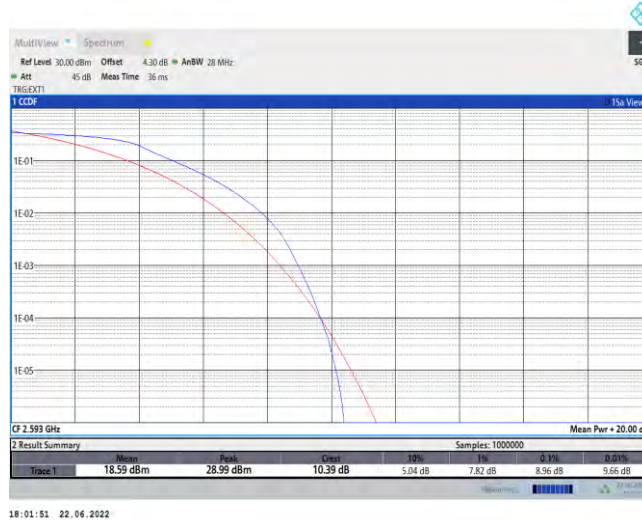
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Test Graphs

Band41-20MHz-QPSK-39750-100RB#0



Band41-20MHz-QPSK-40620-100RB#0

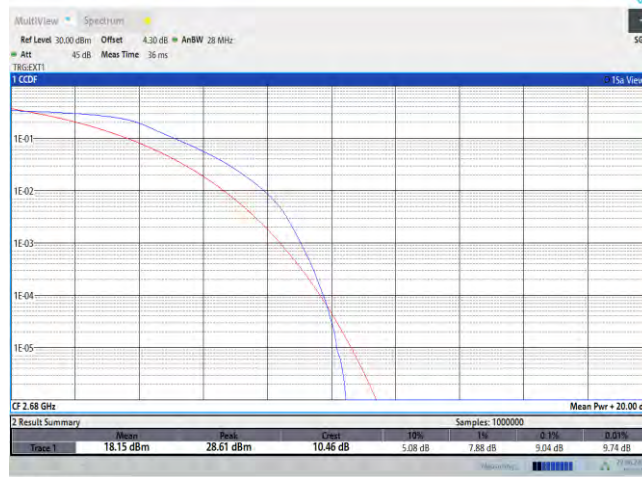


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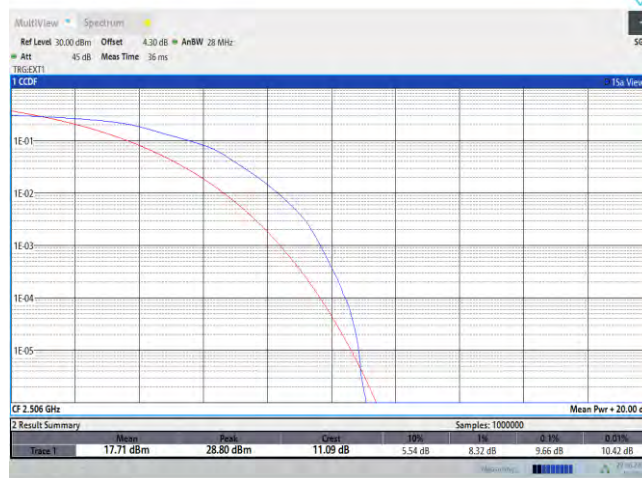
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Band41-20MHz-QPSK-41490-100RB#0



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Band41-20MHz-16QAM-39750-100RB#0



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Band41-20MHz-16QAM-40620-100RB#0



Band41-20MHz-16QAM-41490-100RB#0

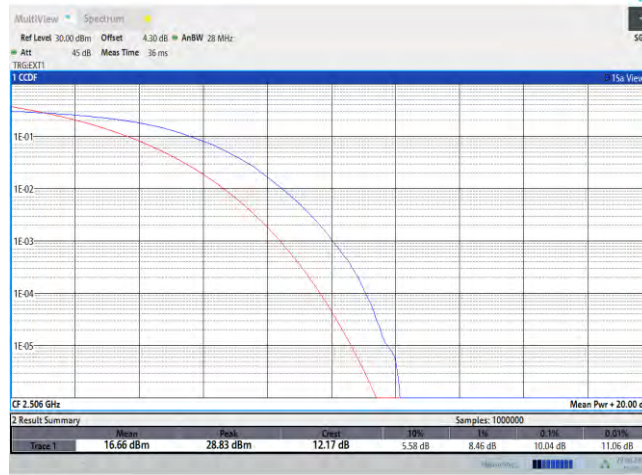


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Band41-20MHz-64QAM-39750-100RB#0



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Band41-20MHz-64QAM-40620-100RB#0



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Band41-20MHz-64QAM-41490-100RB#0



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Report No.: SEWA2212000088RG01

Rev.: 01

Page: 13 of 55

Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band41	20MHz	QPSK	40620	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40620	100RB#0	PASS	PASS
Band41	20MHz	64QAM	40620	100RB#0	PASS	PASS



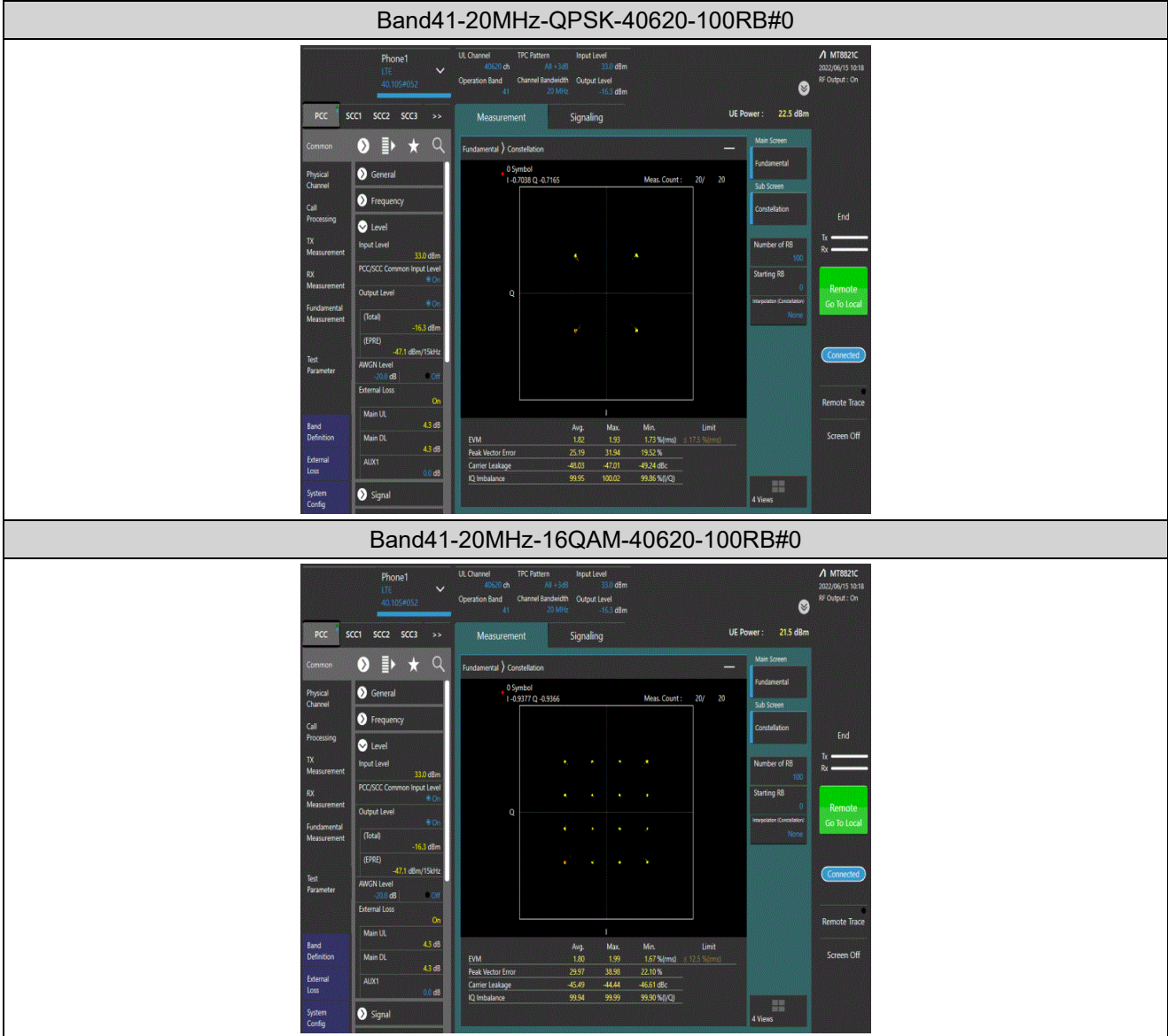
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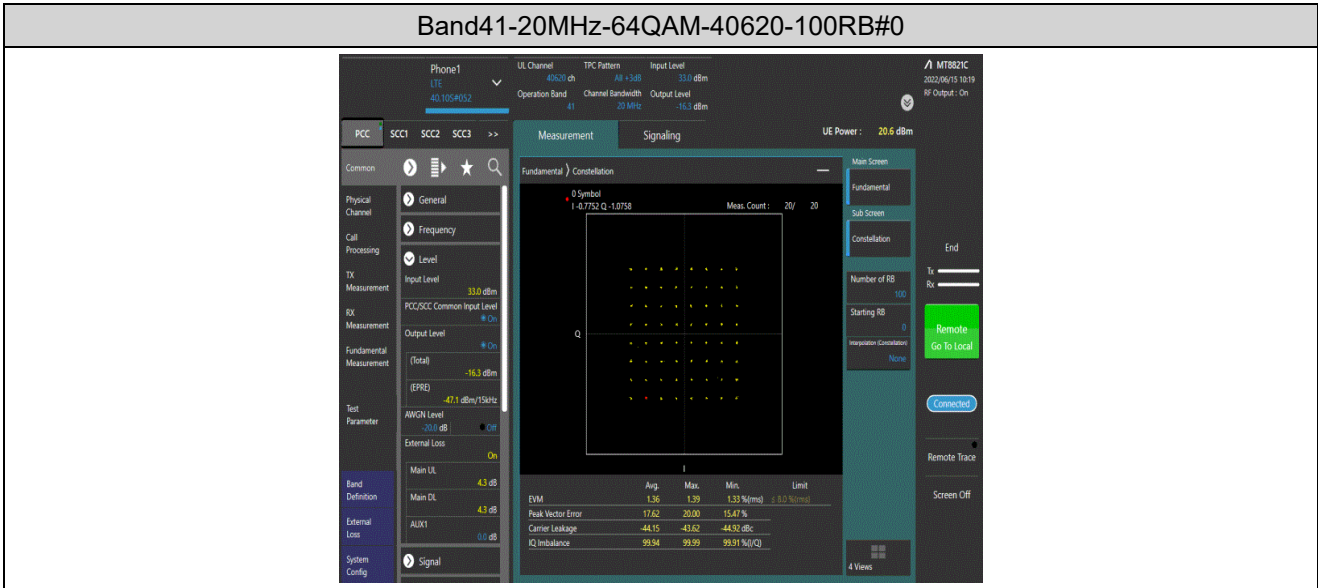
Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.468	4.86	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.471	4.85	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.475	4.85	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.467	4.88	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.464	4.87	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.460	4.87	PASS
Band41	5MHz	64QAM	39675	25RB#0	4.477	4.84	PASS
Band41	5MHz	64QAM	40620	25RB#0	4.477	4.85	PASS
Band41	5MHz	64QAM	41565	25RB#0	4.471	4.85	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.911	9.70	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.908	9.72	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.912	9.70	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.916	9.56	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.922	9.56	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.907	9.58	PASS
Band41	10MHz	64QAM	39700	50RB#0	8.919	9.70	PASS
Band41	10MHz	64QAM	40620	50RB#0	8.923	9.64	PASS
Band41	10MHz	64QAM	41540	50RB#0	8.917	9.68	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.471	14.79	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.484	14.79	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.462	14.76	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.451	14.70	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.466	14.73	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.449	14.82	PASS
Band41	15MHz	64QAM	39725	75RB#0	13.437	14.67	PASS
Band41	15MHz	64QAM	40620	75RB#0	13.417	14.73	PASS
Band41	15MHz	64QAM	41515	75RB#0	13.419	14.64	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.899	19.28	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.884	19.36	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.854	19.28	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.833	21.64	PASS



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Report No.: SEWA2212000088RG01

Rev.: 01

Page: 17 of 55

Band41	20MHz	16QAM	40620	100RB#0	17.832	19.40	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.845	19.44	PASS
Band41	20MHz	64QAM	39750	100RB#0	17.848	19.40	PASS
Band41	20MHz	64QAM	40620	100RB#0	17.844	19.44	PASS
Band41	20MHz	64QAM	41490	100RB#0	17.849	19.24	PASS



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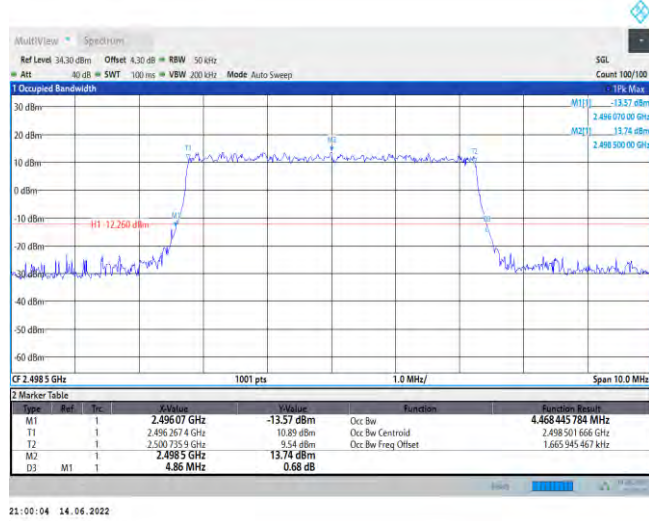
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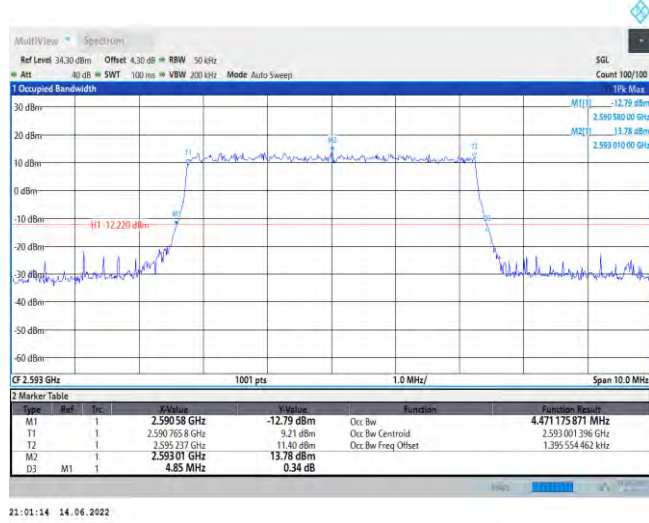
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Band41-5MHz-QPSK-39675-25RB#0



Band41-5MHz-QPSK-40620-25RB#0

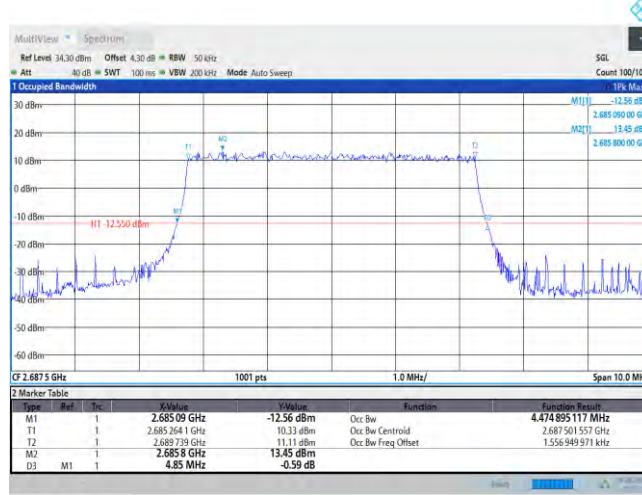


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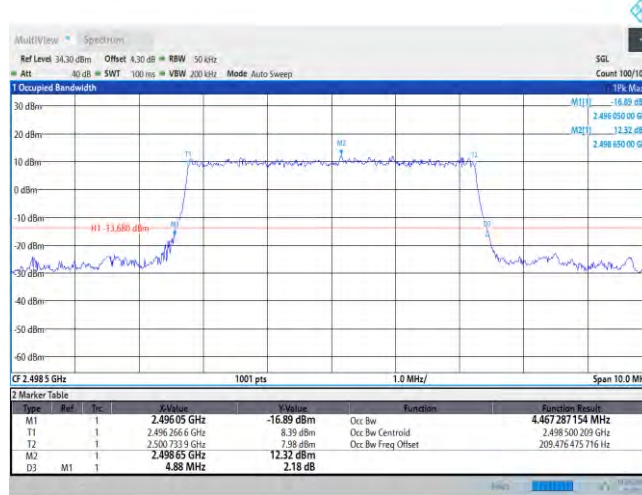
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Band41-5MHz-QPSK-41565-25RB#0



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Band41-5MHz-16QAM-39675-25RB#0



21:00:27 14.06.2022



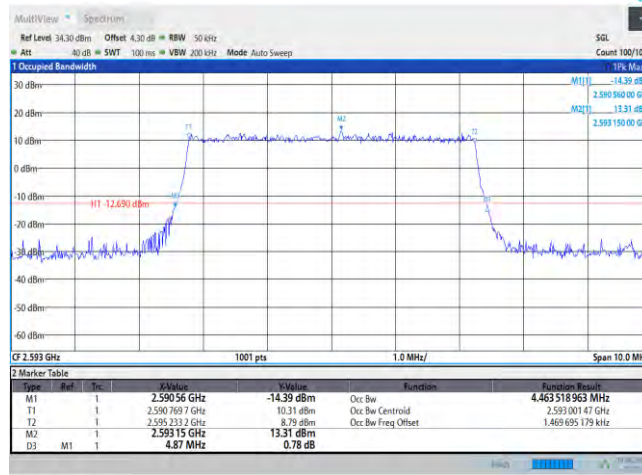
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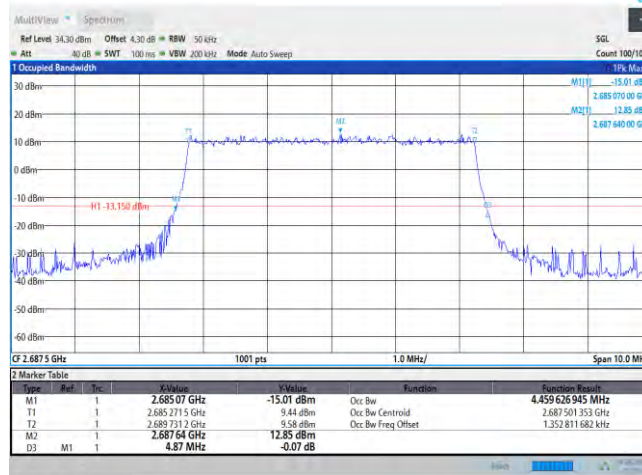
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Band41-5MHz-16QAM-40620-25RB#0



21:01:37 14.06.2022

Band41-5MHz-16QAM-41565-25RB#0



21:02:46 14.06.2022



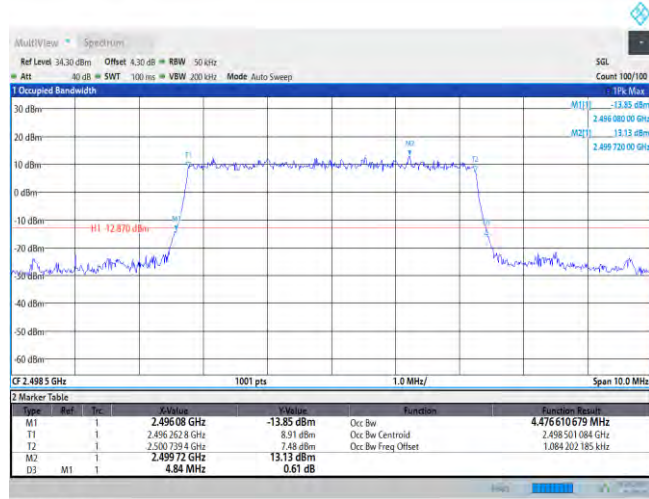
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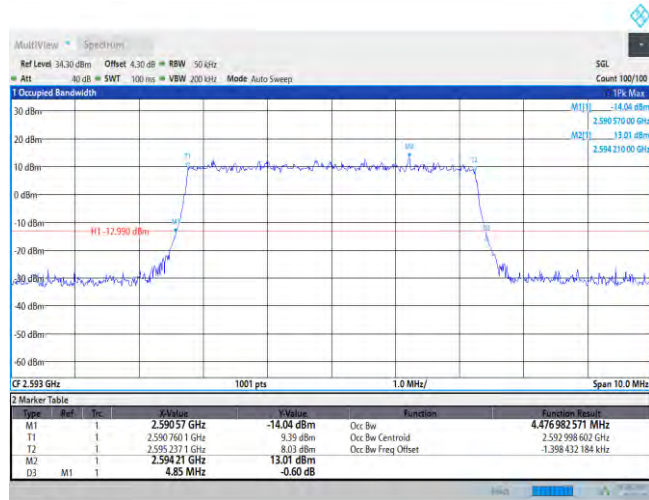
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Band41-5MHz-64QAM-39675-25RB#0



21:00:51 14.06.2022

Band41-5MHz-64QAM-40620-25RB#0



21:02:00 14.06.2022



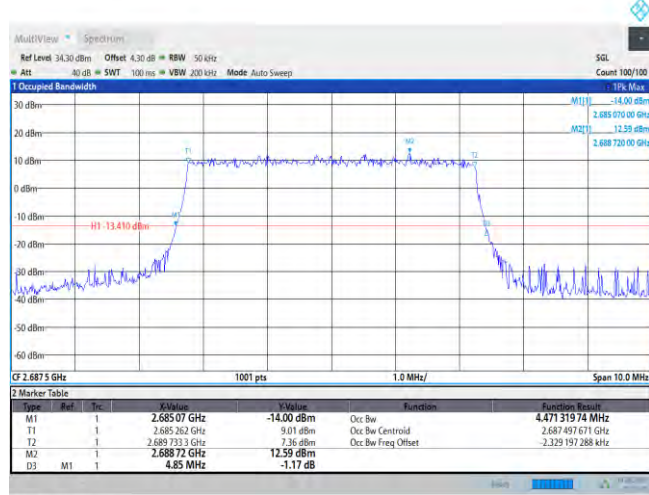
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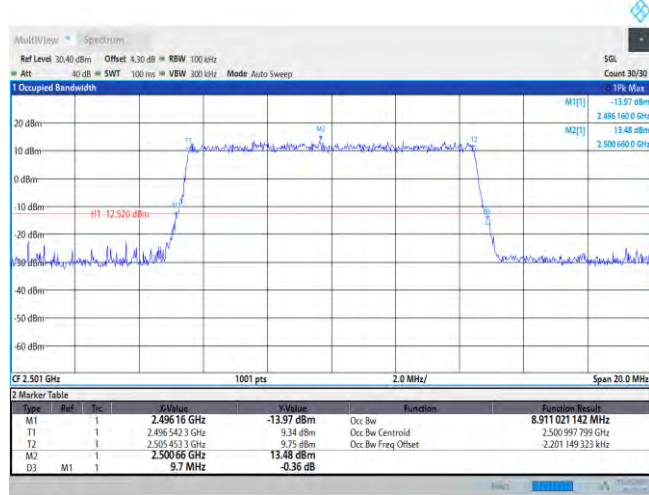
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Band41-5MHz-64QAM-41565-25RB#0



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Band41-10MHz-QPSK-39700-50RB#0



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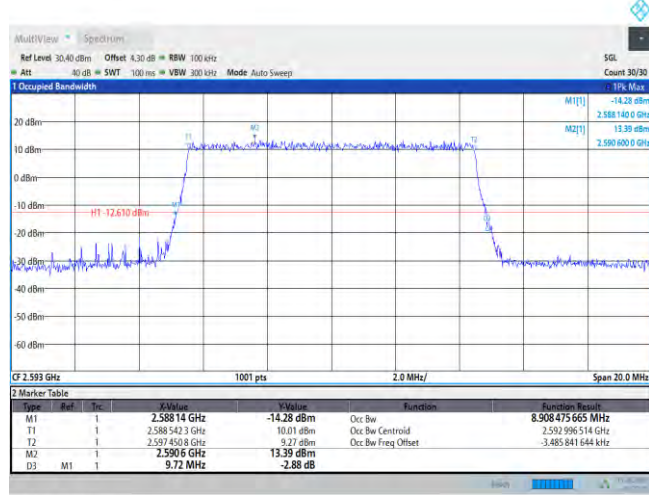


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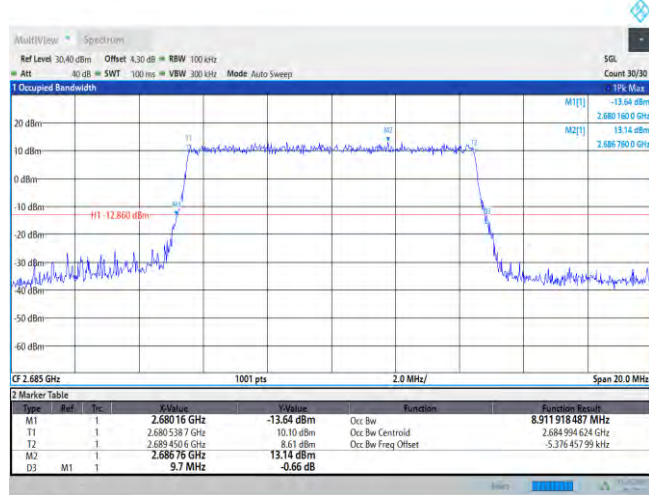
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Band41-10MHz-QPSK-40620-50RB#0



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Band41-10MHz-QPSK-41540-50RB#0



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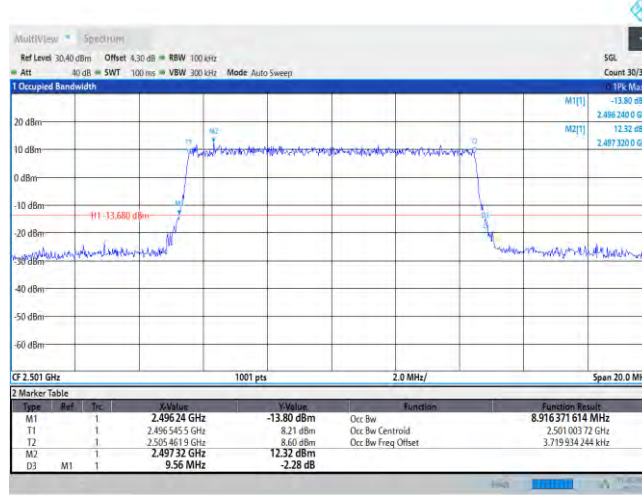
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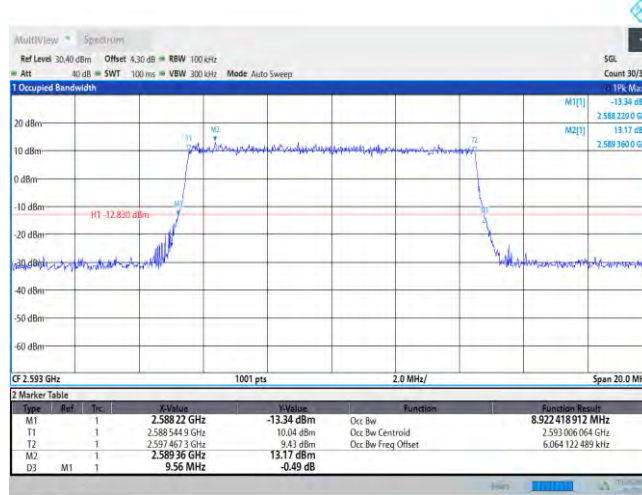
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Band41-10MHz-16QAM-39700-50RB#0



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Band41-10MHz-16QAM-40620-50RB#0



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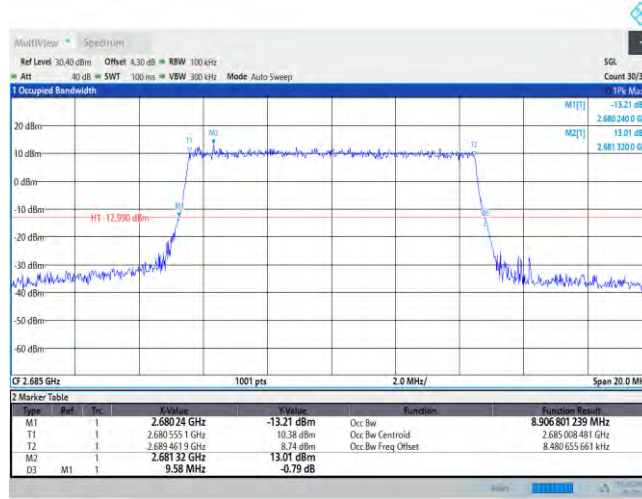
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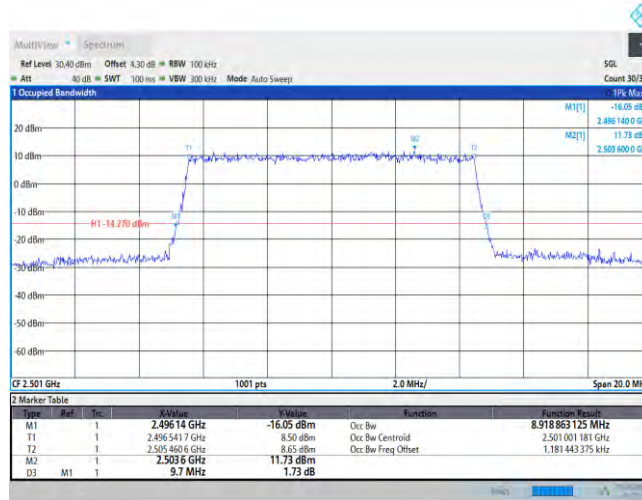
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Band41-10MHz-16QAM-41540-50RB#0



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Band41-10MHz-64QAM-39700-50RB#0



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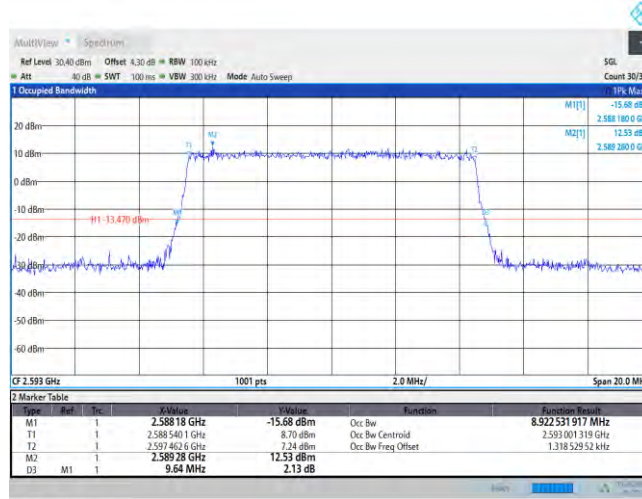
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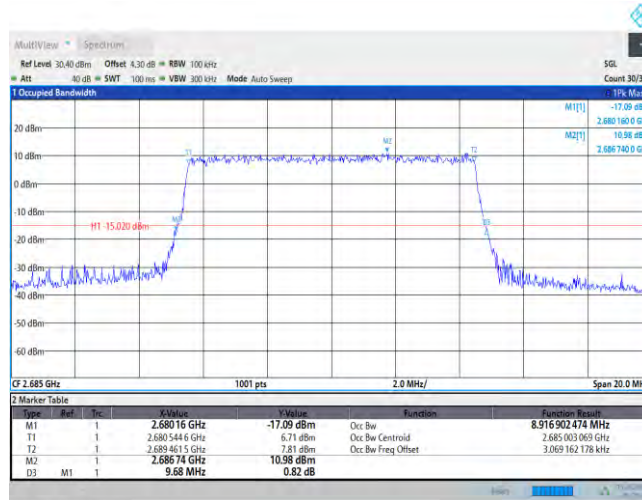
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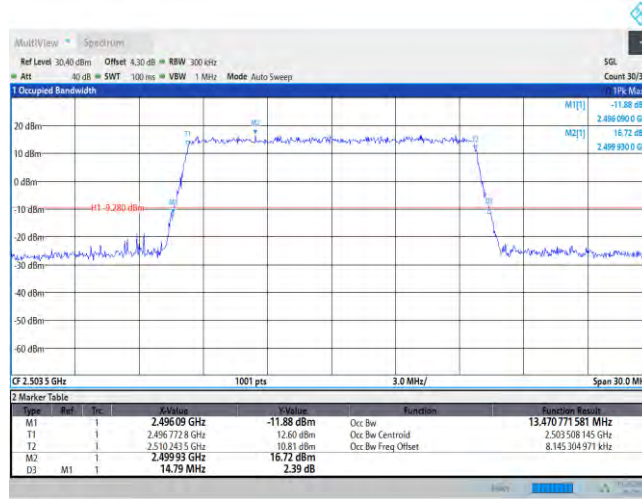


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Band41-15MHz-QPSK-39725-75RB#0



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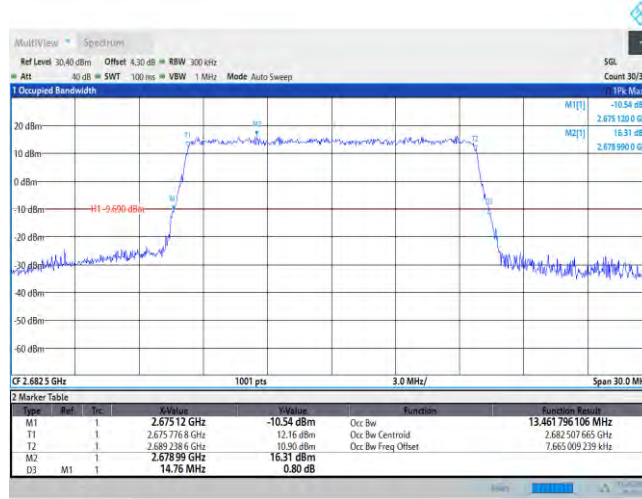


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Band41-15MHz-QPSK-41515-75RB#0



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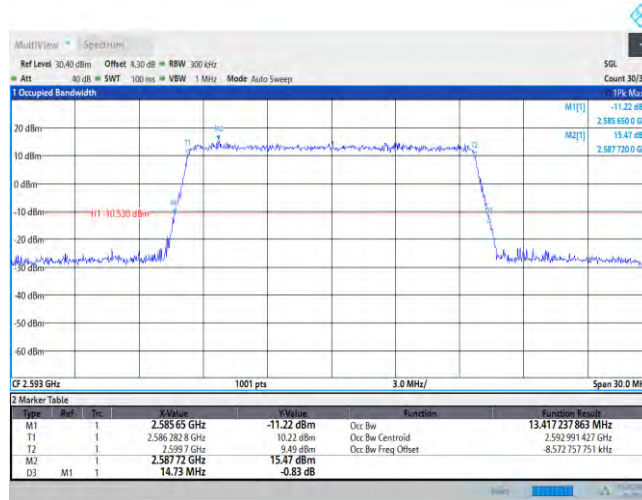
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Band41-15MHz-64QAM-40620-75RB#0



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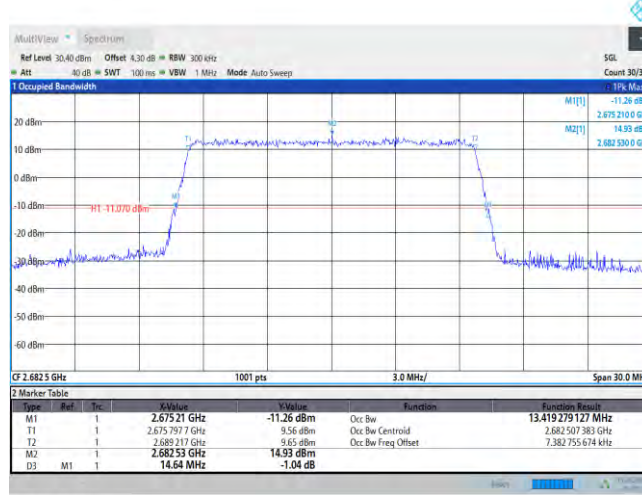
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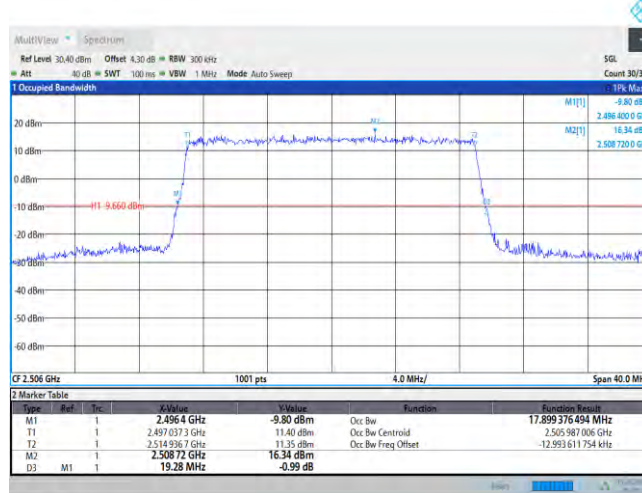
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04:42:30 15.06.2022



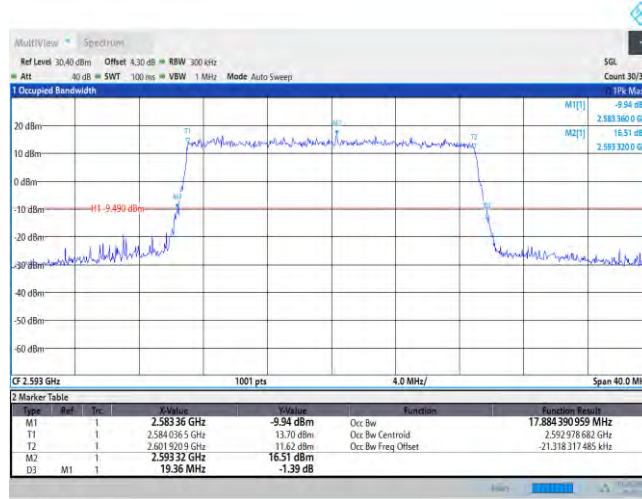
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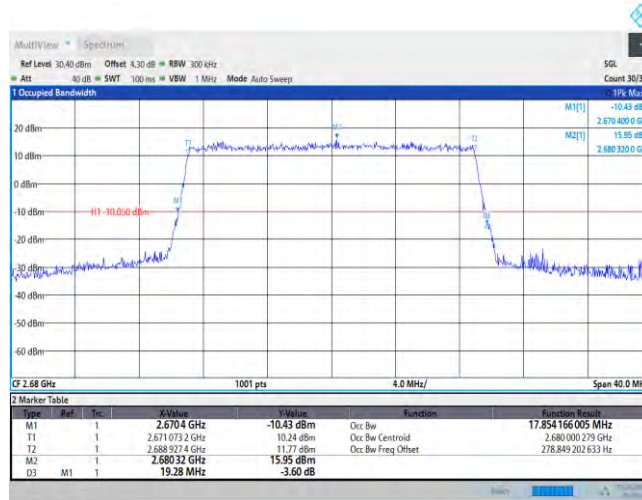
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Band41-20MHz-QPSK-40620-100RB#0



04:43:18 15.06.2022

Band41-20MHz-QPSK-41490-100RB#0



04:44:07 15.06.2022



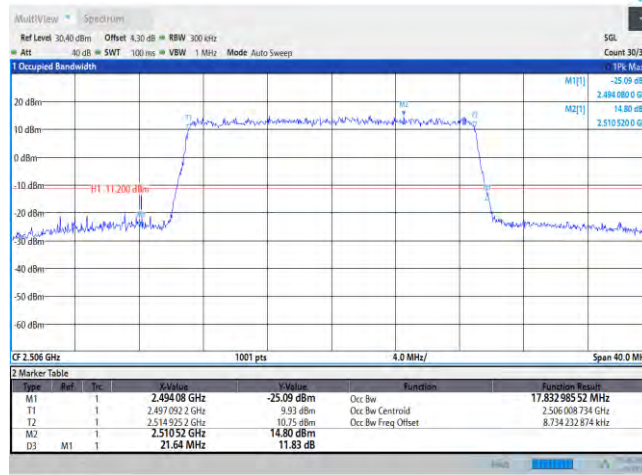
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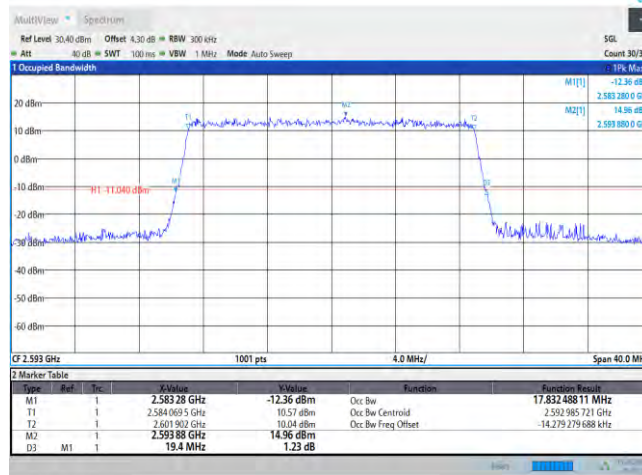
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Band41-20MHz-16QAM-39750-100RB#0



04:42:46 15.06.2022

Band41-20MHz-16QAM-40620-100RB#0



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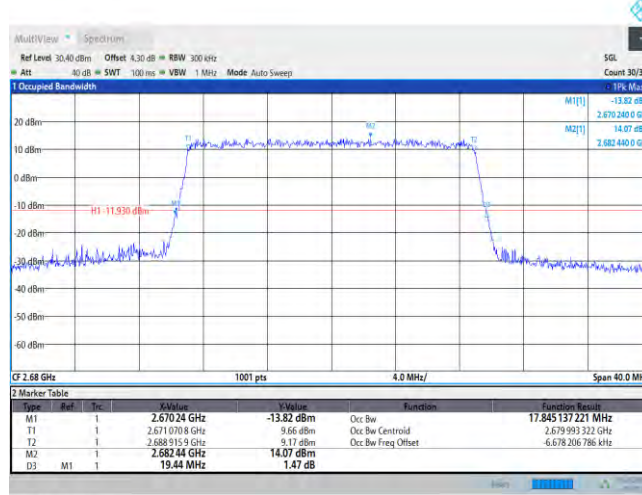
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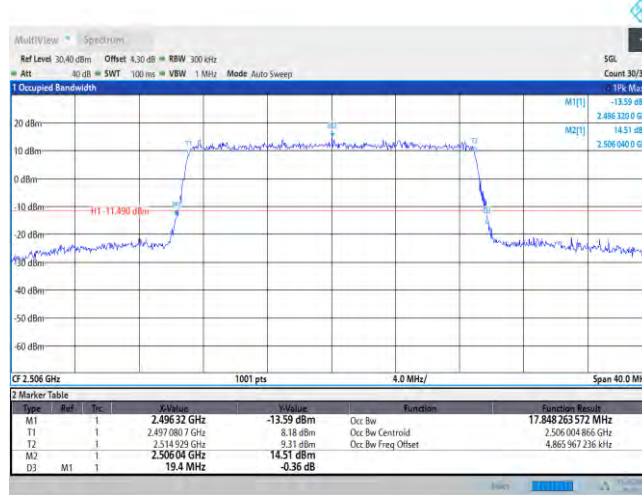
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Band41-20MHz-16QAM-41490-100RB#0



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Band41-20MHz-64QAM-39750-100RB#0



04:43:02 15.06.2022



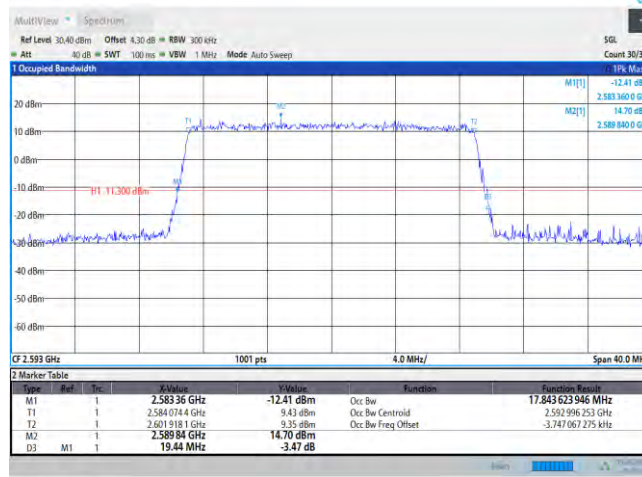
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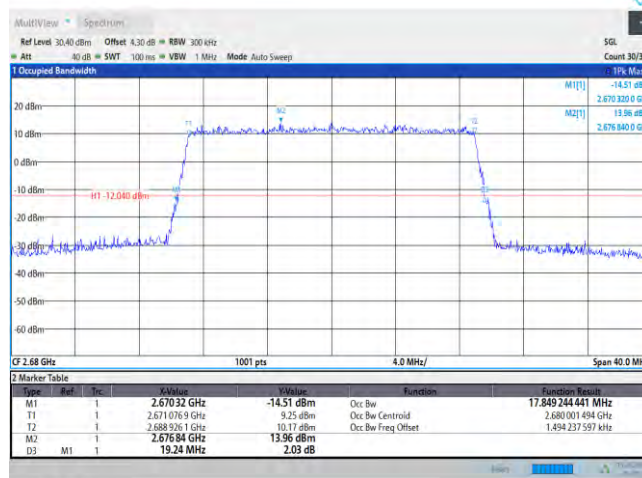
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Band41-20MHz-64QAM-40620-100RB#0



04:43:51 15.06.2022

Band41-20MHz-64QAM-41490-100RB#0



04:44:39 15.06.2022



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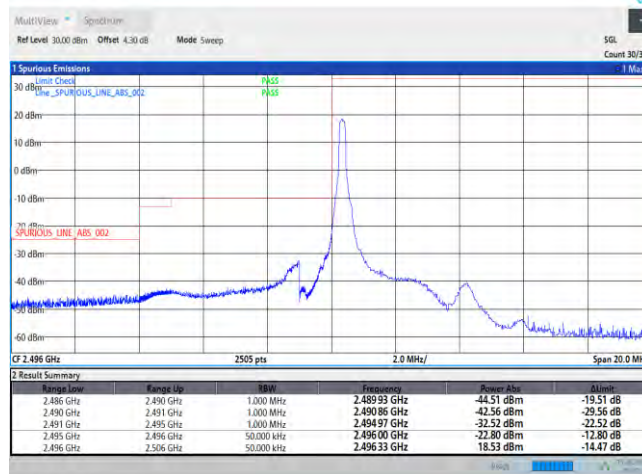
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Band Edge

Test Graphs

Band41-5MHz-QPSK-39675-1RB#0



04:47:34 15.06.2022

Band41-5MHz-QPSK-39675-25RB#0



04:49:48 15.06.2022



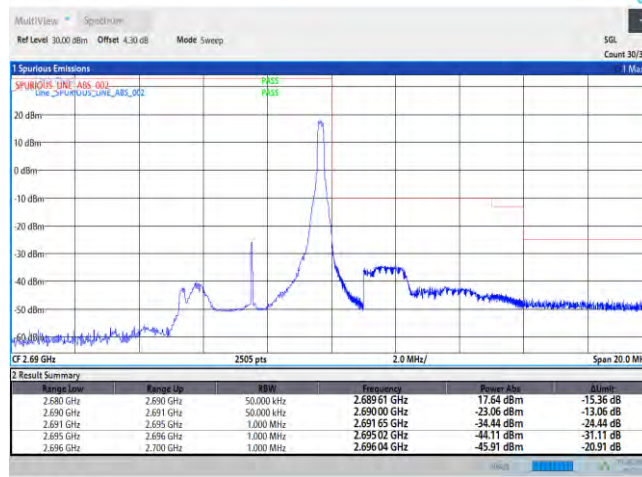
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Band41-5MHz-QPSK-41565-1RB#24



04:52:33 15.06.2022

Band41-5MHz-QPSK-41565-25RB#0



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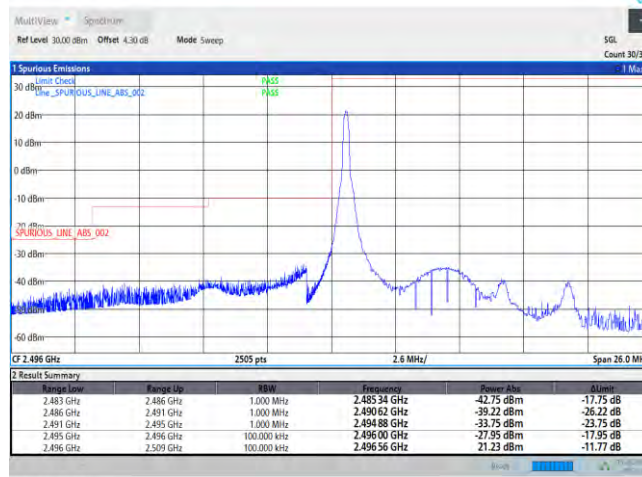
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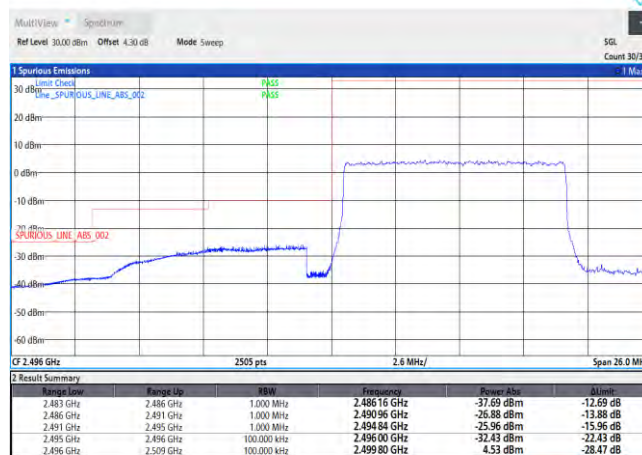
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Band41-10MHz-QPSK-39700-1RB#0



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Band41-10MHz-QPSK-39700-50RB#0



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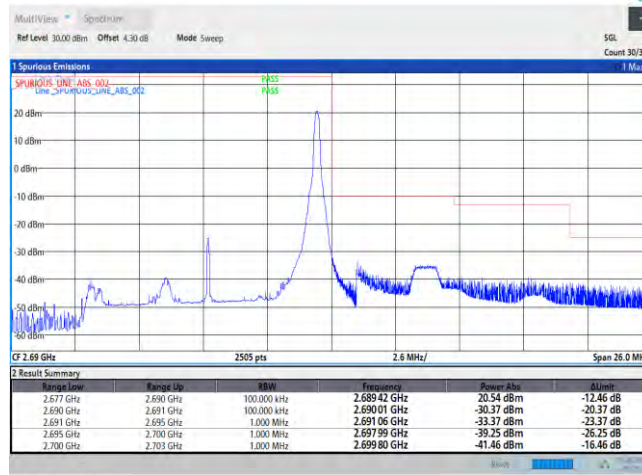


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Band41-10MHz-QPSK-41540-1RB#49



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Band41-10MHz-QPSK-41540-50RB#0



05:00:53 15.06.2022

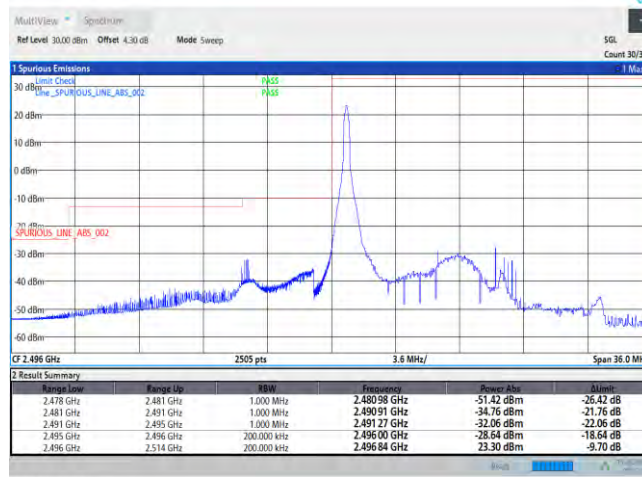


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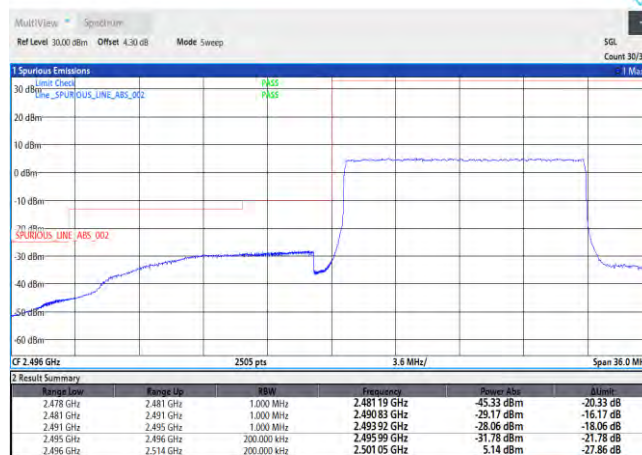
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Band41-15MHz-QPSK-39725-1RB#0



05:02:38 15.06.2022

Band41-15MHz-QPSK-39725-75RB#0



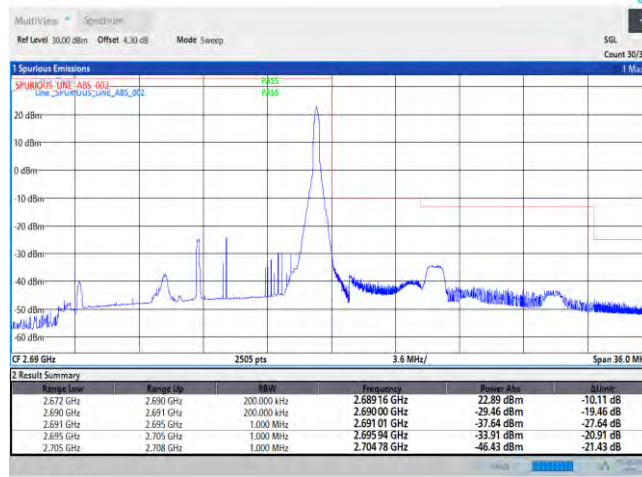
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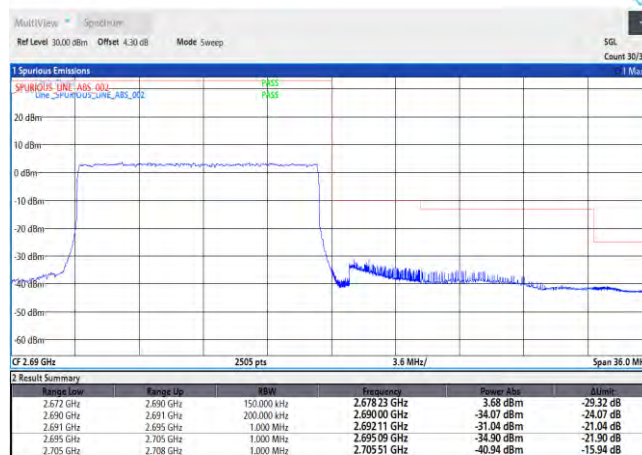
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Band41-15MHz-QPSK-41515-1RB#74



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05:07:03 15.06.2022



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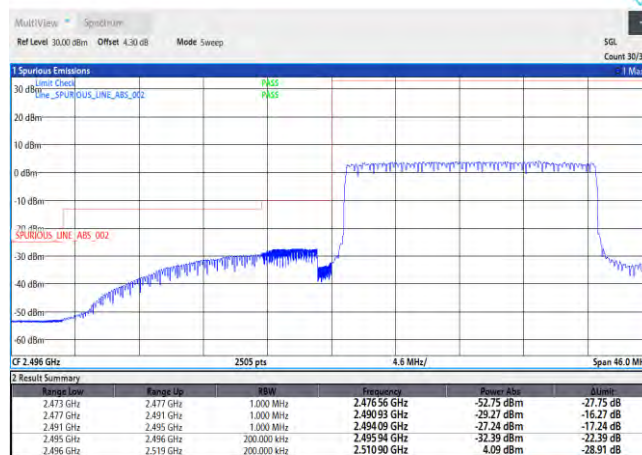
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Band41-20MHz-QPSK-39750-1RB#0



05:08:58 15.06.2022

Band41-20MHz-QPSK-39750-100RB#0



05:10:13 15.06.2022

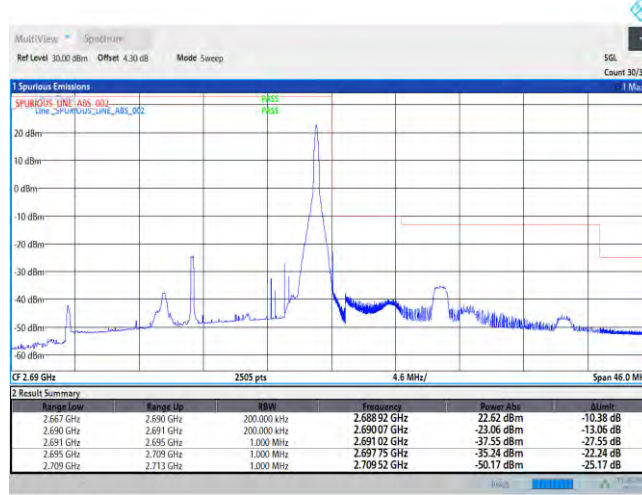


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05:12:08 15.06.2022

Band41-20MHz-QPSK-41490-100RB#0



05:13:23 15.06.2022



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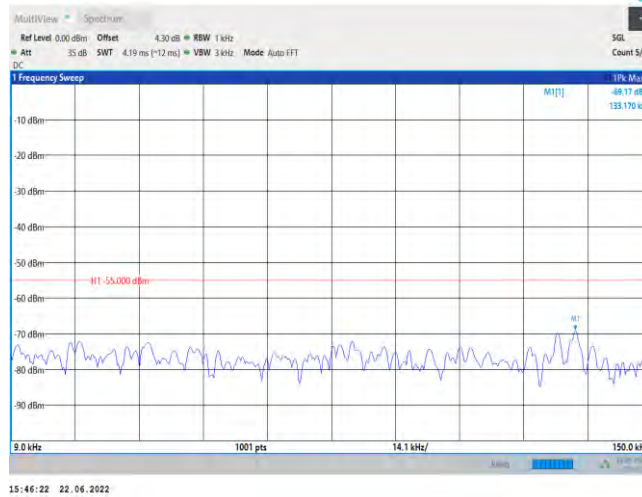
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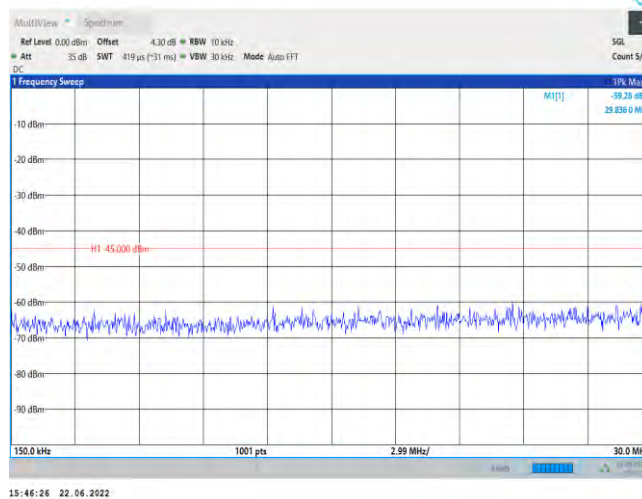
Conducted Spurious Emission

Test Graphs

Band41-20MHz-QPSK-39750-1RB#0-Range1:0.009~0.15MHz



Band41-20MHz-QPSK-39750-1RB#0-Range2:0.15~30MHz



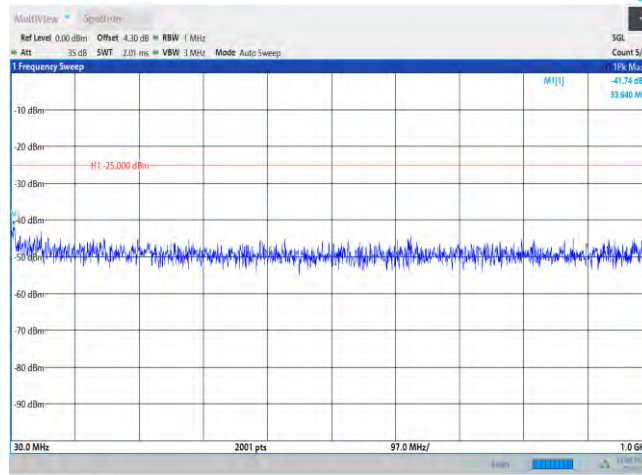
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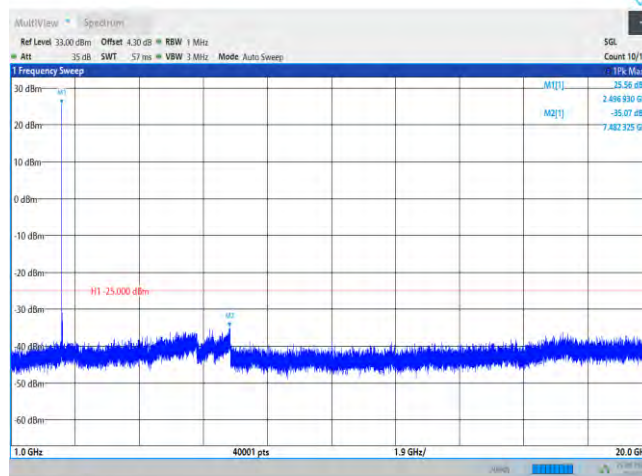
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Band41-20MHz-QPSK-39750-1RB#0-Range3:30~1000MHz



15:46:30 22.06.2022

Band41-20MHz-QPSK-39750-1RB#0-Range4:1000~20000MHz



15:46:36 22.06.2022



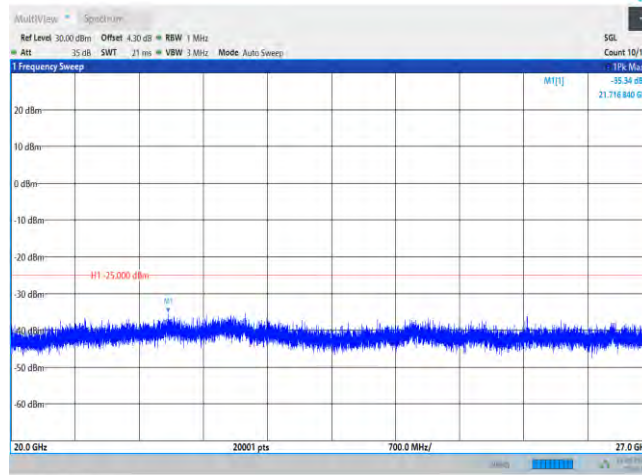
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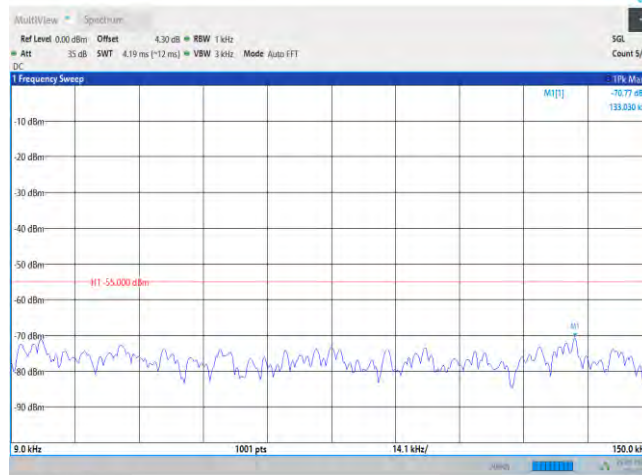
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Band41-20MHz-QPSK-39750-1RB#0-Range5:20000~27000MHz



15:46:41 22.06.2022

Band41-20MHz-QPSK-40620-1RB#0-Range1:0.009~0.15MHz



15:46:55 22.06.2022

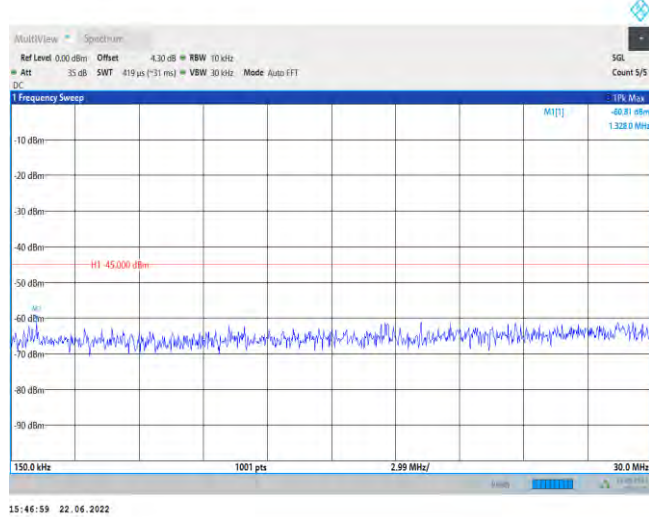


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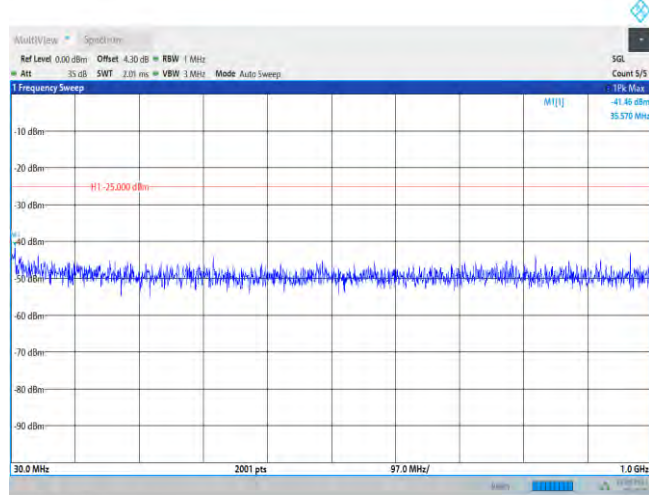
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Band41-20MHz-QPSK-40620-1RB#0-Range2:0.15~30MHz



15:46:59 22.06.2022

Band41-20MHz-QPSK-40620-1RB#0-Range3:30~1000MHz



15:47:03 22.06.2022

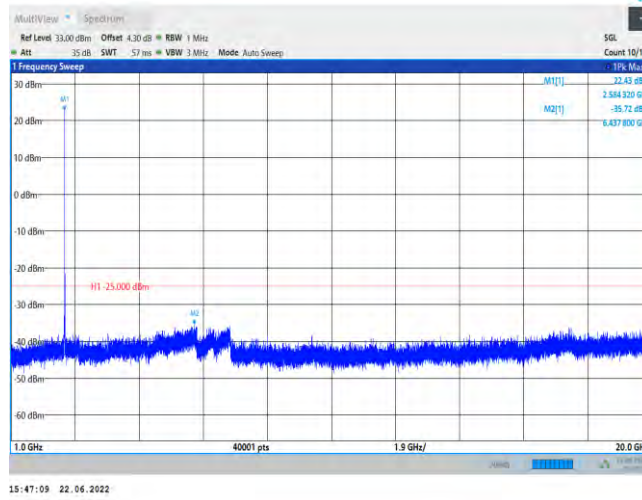


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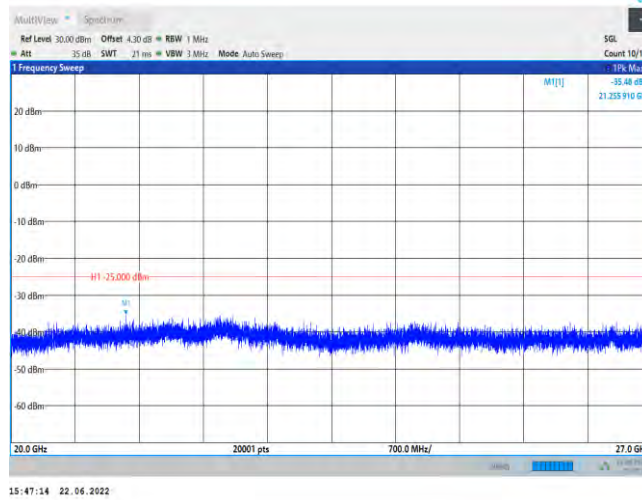
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Band41-20MHz-QPSK-40620-1RB#0-Range4:1000~20000MHz



Band41-20MHz-QPSK-40620-1RB#0-Range5:20000~27000MHz



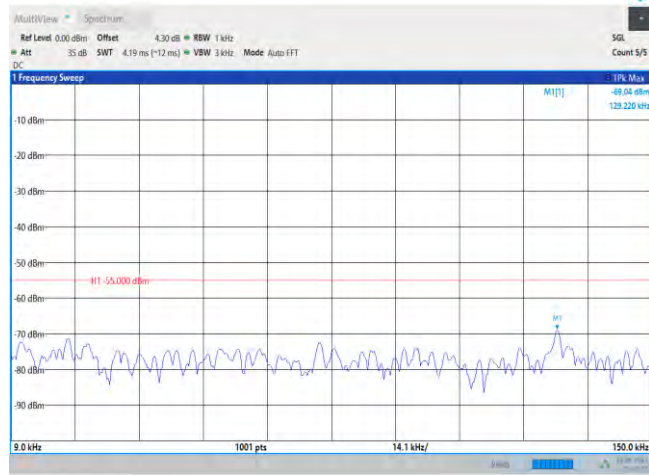
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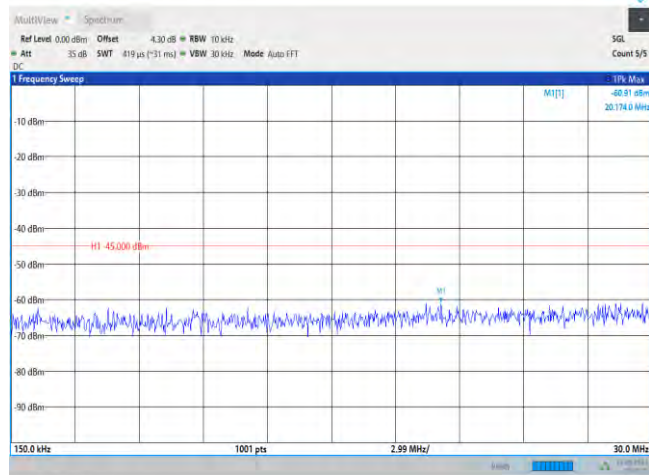
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Band41-20MHz-QPSK-41490-1RB#0-Range1:0.009~0.15MHz



15:47:28 22.06.2022

Band41-20MHz-QPSK-41490-1RB#0-Range2:0.15~30MHz

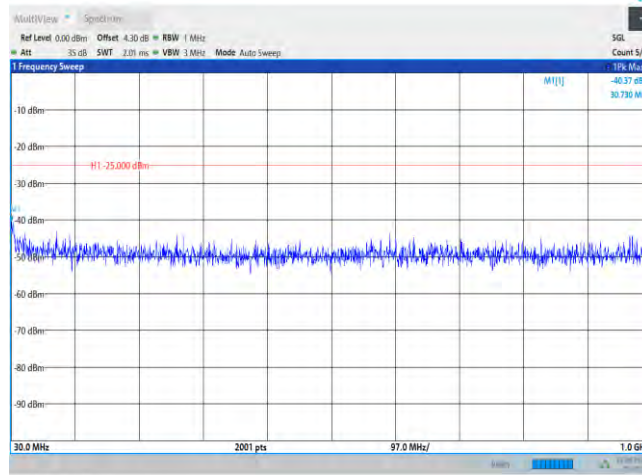


15:47:32 22.06.2022



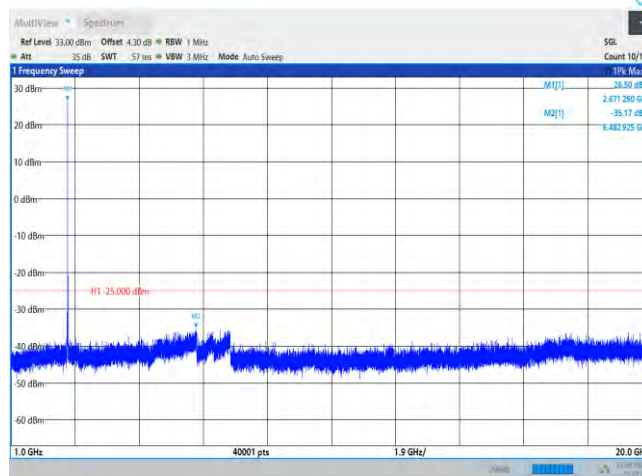
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Band41-20MHz-QPSK-41490-1RB#0-Range3:30~1000MHz



15:47:36 22.06.2022

Band41-20MHz-QPSK-41490-1RB#0-Range4:1000~20000MHz



15:47:41 22.06.2022

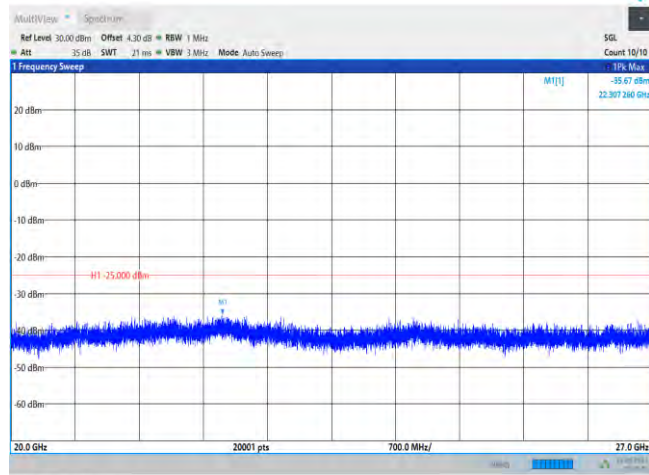


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Band41-20MHz-QPSK-41490-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 41_ TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.1800	49.34	-108.03	-58.69	-25.00	33.69	261	179	Horizontal
2	7491.2700	46.60	-101.98	-55.38	-25.00	30.38	273	194	Horizontal
3	9988.3600	42.22	-96.04	-53.82	-25.00	28.82	249	135	Horizontal
4	12485.4500	37.78	-93.14	-55.36	-25.00	30.36	153	256	Horizontal
5	14982.5400	35.72	-90.64	-54.92	-25.00	29.92	175	358	Horizontal
6	17479.6300	39.50	-91.23	-51.73	-25.00	26.73	173	44	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4994.1800	49.32	-108.03	-58.71	-25.00	33.71	291	166	Vertical
2	7491.2700	46.97	-101.98	-55.01	-25.00	30.01	167	344	Vertical
3	9988.3600	43.57	-96.04	-52.47	-25.00	27.47	134	273	Vertical
4	12485.4500	39.16	-93.14	-53.98	-25.00	28.98	183	256	Vertical
5	14982.5400	36.42	-90.64	-54.22	-25.00	29.22	234	360	Vertical
6	17479.6300	39.29	-91.23	-51.94	-25.00	26.94	291	90	Vertical





Report No.: SEWA2212000088RG01

Rev.: 01

Page: 53 of 55

Test Band = LTE Band 41_ TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4472.25	53.44	-109.42	-55.98	-25.00	30.98	264	344	Horizontal
2	5168.1800	50.79	-107.60	-56.81	-25.00	31.81	192	358	Horizontal
3	7752.2700	47.85	-101.26	-53.41	-25.00	28.41	234	90	Horizontal
4	10336.3600	42.22	-95.48	-53.26	-25.00	28.26	276	210	Horizontal
5	12920.4500	39.16	-92.67	-53.51	-25.00	28.51	294	225	Horizontal
6	15504.5400	37.30	-92.04	-54.74	-25.00	29.74	137	196	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4990.5	51.59	-108.04	-56.45	-25.00	31.45	267	360	Vertical
2	5168.1800	49.60	-107.60	-58.00	-25.00	33.00	264	88	Vertical
3	7752.2700	47.51	-101.26	-53.75	-25.00	28.75	273	314	Vertical
4	10336.3600	44.30	-95.48	-51.18	-25.00	26.18	291	134	Vertical
5	12920.4500	39.37	-92.67	-53.30	-25.00	28.30	167	240	Vertical
6	15504.5400	37.07	-92.04	-54.97	-25.00	29.97	134	103	Vertical



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Test Band = LTE Band 41_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4870.5	52.05	-108.28	-56.23	-25.00	31.23	164	254	Horizontal
2	5342.1800	48.07	-107.58	-59.51	-25.00	34.51	134	121	Horizontal
3	8013.2700	46.15	-100.46	-54.31	-25.00	29.31	152	359	Horizontal
4	10684.3600	44.91	-94.10	-49.19	-25.00	24.19	193	270	Horizontal
5	13355.4500	39.80	-91.72	-51.92	-25.00	26.92	246	242	Horizontal
6	16026.5400	38.91	-92.29	-53.38	-25.00	28.38	273	256	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3978	53.21	-110.60	-57.39	-25.00	32.39	134	44	Vertical
2	5342.1800	48.93	-107.58	-58.65	-25.00	33.65	261	359	Vertical
3	8013.2700	47.89	-100.46	-52.57	-25.00	27.57	164	330	Vertical
4	10684.3600	48.51	-94.10	-45.59	-25.00	20.59	137	270	Vertical
5	13355.4500	38.31	-91.72	-53.41	-25.00	28.41	183	344	Vertical
6	16026.5400	38.43	-92.29	-53.86	-25.00	28.86	267	104	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading Level(dB}\mu\text{V)} + \text{Factor(dB)}$$

$$\text{Factor} = \text{AF(dB/m)} + \text{Cable Factor(dB)} - \text{Preamplifier gain(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Margin} = \text{Limit(dBm)} - \text{Level(dBm)}$$



Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	VL	NT	-6.70	-0.002584	PASS
Band41	20MHz	QPSK	40620	100RB#0	VN	NT	-6.80	-0.002622	PASS
Band41	20MHz	QPSK	40620	100RB#0	VH	NT	-8.30	-0.003201	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	-8.10	-0.003124	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-6.10	-0.002352	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-0.30	-0.000116	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	-9.40	-0.003625	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-2.40	-0.000926	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	-10.50	-0.004049	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-1.30	-0.000501	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	-3.60	-0.001388	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-3.90	-0.001504	PASS

---End of Attachment---



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